Administrative Offices
1338 Biglerville Road
Gettysburg, PA 17325
Ph (717) 334-9211

Adams Electric Cooperative, Inc.

March 29, 2004

Richard Annan - RUS

Dear Sir:

In reference to proposed RUS Bulletin 1728F-804, we offer the following comments and suggestions:

A1	This is a miscellaneous A1; why not rename it as A1.___, and file it at the end of the A1s'. As listed on the first page of these assemblies, it gives the impression that it is a major assembly. It also creates confusion with the old A1.
A1.04N & NP	Same comment as A1. (Try A1.14N & A1.14NP).
A1.3	We believe that turning angles on an A1 is improper (may consider not allowing angles).
A1.4N & A1.4NP	Why isn't the neutral out as far as the phase? If the arm is required to offset an angle to straighten the line, why not move the neutral out to the same position.
A1.6N & A1.NP	Same comment as A1.4N & A1.4NP
A1.11 & A1.11P	We believe that turning angles on these structures is improper.
A2	This is a miscellaneous A2, why not rename it as A2.---, and file it at the end of the A2s'? It also creates confusion with the old A2.
A2.04N &2.04NP	Rename as A2.14N & 2.14NP and file at the end of A2s'. We believe that the miscellaneous assemblies should fall at the end of the section.
A2.4N & A2.5N	Note regarding grade B construction is unclear and should be elaborated as how to apply. (Same comment -- all specs where this note is used).
A2.4NP & A2.5NP	Same comment as A2.4N & A2.5N.
A2.6N	We do not understand how can this assembly turn heavier angles than the A2.3.

A2.6NP	We do not understand how can this assembly turn heavier angles than the A2.3N ?
A3.2 & A3.3	The top view is missing. The note on two guys is unclear. Do you want one guy 6" below phase and second guy 6" below neutral? Why would that be necessary?
A4.1	Why not show at 90-deg. angle which is more typical?
A4.1 & A4.2	These two specifications could be merged into one drawing. Let field folks decide if pole top pin is needed (add A1.01 if needed).
A5	Why not call this an A5. --- , and place it at the end of the A5s'?
A5.2	Why not have a separate spec?
A5.7NG	This is not squirrel friendly. Arrester has ground in close proximity to cutout.
A6.2	What do you use between 20 deg. and 5 deg.? No drawing for 5 – 20 deg.
A6.21	Why not call this an A8.1 or A8.01, less change to get used to?
B1.4N & B1.5N	Add note to put neutral offset on same side of pole as pole top phase to maximize clearance for raptors.
B1.4NP & B1.5NP	Same comment as B1.4N & B1.5N.
B1.7N & B1.8N	Should show neutral out as far as phases. Keep line as a tangent (move everything out).
B1.7NP & B1.8NP	Same comment as B1.7N & B1.8N.
B1.9N & B1.9 NP	Same comment as B1.4N & B1.5N.
B2.24 & B2.25	Why not name it B1. –
B2.24P & B2.25P	Same comment as B2.24 & B2.25.
A3.1 & B3.1 &C3.1	Why can't we go down to 18-20 deg. on all conductors and use the A3 or B3 or C3.
B4.1	Need another spec to show 20-90 deg.. Should be called a B4.2 to be consistant with As'.
B5.21 & B5.31	Why not call these B7.21 & B7.31 to make it easier for people who are adjusting to the change?
C1.7N & C1.8N	Should move neutral out same as phases.
C1.7NP & C1.8NP	Same comment as C1.7N & C1.8N.
C1.9N & C1.9NP	Same comment as C1.7N & C1.8N.

C2.21L	Why not call it a C1.---
C2.51;	Why not call it a C1. ---
C3.1	Same comment as A3.1; why can't we go down to 18-20 deg. on all conductors?
C4.1 & C4.2L	Why separate drawings (one would do both)? Why use insulated extension on C4.2L? Plan view and profile view don't agree on C4.2L.
D1.4N	Why not show neutral offset as an option?
F2.6, 2.8, 2.10, 2.12	No reference to inch of diameter of helix – is easier to use. We've always used this for diameter reference.
Q4.1	Shows x-arms for primary metering. This is uncommon; why not show metering clusters. List metering clusters in materials list.
R.1.1	Do we need extension bracket?
S2.32	Why not show an underslung (under crossarm) design? No one wants to deadend on the switch these days.
Y1.3	Regulators are too tight for most sizes. Why not show pre engineered platform mounted.
Y3.2, Y3.3	Need switched bank spec. Where is single phase capacitor spec.?

A faster way is needed to reference the TABLES found in the back of the bulletin, i.e. A, III, IV, etc. Perhaps, making them available as a separate document would help.

Suggest adding the maximum transverse load rating in addition to maximum line angles table reference on specs.

Suggest including maximum line angle tables for 60% maximum tension or 2000 lbs., whichever is less. This is a common design tension for IOUs'.

We hope that these comments are helpful. Please contact me at 717.334.9211 or at scottw@adamsec.com if you have any questions.

Thank you for your consideration.

Scott A. Wehler PE
Manager of Engineering
Adams Electric Cooperative, Inc.
1338 Biglerville Road
Gettysburg, PA. 17325
Ph 717-334-9211